

OIPE

DATE: 02/12/2002 RAW SEQUENCE LISTING TIME: 12:01:23 PATENT APPLICATION: US/10/052,283 Input Set : A:\P2751R1C1.txt Output Set: N:\CRF3\02122002\J052283.raw 3 <110> APPLICANT: Baker, Kevin P. Goddard, Audrev Wood, William I. 7 <120> TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES AND METHOD OF USE THEREOF 9 -130> FILE REFERENCE: P2751R1C1 > 11 <140> CURRENT APPLICATION NUMBER: US/10/052,283 11 <141> CURRENT FILING DATE: 2002-01-15 11 <150> PRIOR APPLICATION NUMBER: PCT/US00/20006 ENTERED 12 <151> PRIOR FILING DATE: 2000-07-21 14 (150) PRIOR APPLICATION NUMBER: US 60/145,701 15 -: 151 > PRIOR FILING DATE 1999-07-26 17 +160> NUMBER OF SEQ ID NOS: 564 19 <210> SEQ ID NO: 1 20 <211> LENGTH: 478 21 <212> TYPE: DNA 22 <213> ORGANISM: Homo Sapien 24 <220> FEATURE: 25 <221> NAME/KEY: unsure 26 <222> LOCATION: 212, 285, 424 27 <223> OTHER INFORMATION unknown base 29 < 400 > SEQUENCE: 130 agtitgttaa aaataataat gocaataata tatgttattt taogtatgtt 50 32 tatacagatg cacgottatt tatacttatg tgtaagtgaa ataaatggca 100 34 aaaatgatac aaggcatagg aagaagaaat taggattata tgctatgtaa 150 36 qaaqcagtat agtgtttttt gaaaatagac ttgaattagt tggaaatcca 200 w--> 38 tattgaaaac tntcgggcaa acatttttaa aaaataaaaa aatgatatgc 250 $w_{ au-}$ > 40 taagaaagaa gagaaaacgg aattacacaa aatgntcaat taaaaccaca 300/42 waaggaagca aaagtgtgga aaacaaaaag gggaacaaag aataaggcaa 350 caaacagaaa acagtaacaa atatggtaag cattaatcca actatattaa 400 taatcacttt aaatatcaat ggtntaaata tgtcaattat aagacagaga 450 titaccagagt ggacacatta tataagct 478 50 <210> SEQ ID NO: 2 51 - 211 - LENGTH: 682 52 <212> TYPE: DNA 53 <213 > ORGANISM: Homo Sapien 55 <220 > FEATURE: 56 -221 > NAME/KEY: unsure 57 <222 > LOCATION: 45, 51, 62 58 <223 > OTHER INFORMATION: unknown base 60 < 400 > SEQUENCE: 2 61 acgttcgcgg ttcgaggtta gggccccgga agcccgcagt aattncacgt 50 nttcccgccc gnttccggcc ccccagtgcc gcccttcgcg ggccggaggc 100 63

gegagtetgg getttggege ettegeagee geaggegaea teetetttee 150

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/052,283

DATE: 02/12/2002 TIME: 12:01:23

Input Set : A:\P2751R1C1.txt

Output Set: N:\CRF3\02122002\J052283.raw

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    8.3
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W--> 109
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W{⟨-> 129
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146 <220> FEATURE:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/052,283

Input Set: A:\P2751R1C1.txt
Output Set: N:\CRF3\02122002\J052283.raw

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w\+> 167
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رارها\sim 169 ncnattactc taaatatcaa tgttttnaat atgtctattg tnagacngag 450
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W--> 194
          aagacgcgtt ccgggtagcc caaagangtt tentantnac ccaaagcccc 250
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PATENT APPLICATION: US/10/052,283 Input Set A:\P2751R1C1.txt Output Set N:\CRF3\02122002\J052283.raw 223 259, 266-267, 272, 276, 298, 305-306, 319, 339-340, 344, 346, 348, 353, 384, 397, 408, 432, 455, 457, 470, 474, 480, 502, 504, 224 225 519, 525, 559, 579, 597, 625, 629, 631, 634, 645, 649, 655, 657, 226 666, 670, 675, 681, 697, 768, 773, 776, 786, 788, 791, 794, 816, 819, 830, 859, 877, 879, 886, 895, 904, 910, 913, 918, 925, 227 927-946, 952, 956, 958, 962, 966, 968-969 228 229 <223> OTHER INFORMATION: unknown base 231 <400> SEOUENCE: 6 cccctttttc cnnggttttt ttttnggaaa aaaatttcag gggtanccng 50 W--> 232 ggnaaaattt aaantccagg gtttgggggg atttccccgg ggtncttttg 100 W--> 234W--> 236 gagtteettt ggaeetgnaa caaagggttg gaantaaaan aaaaattaaa 150 aancngggtt tttnggggaa anttnanaat gngnttgggg ncaagaaaaa 200 W--> 238 W--> 240 tqqqtttttn gggagggnaa ngnnggttca tttccaaatn gnaggggggn 250 aaaaatttna ggcttnnggg gnaggnggaa aaaaatttcg tagcctcnag 300 W--> 242 gttgnnattt ttaaacctnc agaaggtggc cagccccgnn tcancngntg 350 W--> 244 W--> 246atnaaqqcaq atqqqaaaaq qqqqatatqq qqtnataaqq qtacctntca 400 W--> 248 cccttttnga aggaaaaaa gtggtccaca gnatttttgt ttacccaagg 450 W--> 250 gtaananatg gaattttgtn gaanataggn gaatggtgag gcatttggaa 500 W+-> 252 ananggggg gggtttttnt tgaanggggg agtaggggta tggtatttta 550 254 <کــا tgggaaaana gttttttggc actaaaccnt tttgaattac ctaatanatt 600 tatgtggaaa cctgtccttt ttttncagnt naanaaaaat ttttncccnt 650 --> 256 --> 258 gaaantnatt tttagnaagn atatnaaaag nattttttt ttcaagngtc 700 agaaaccttt tagcatcatt gaagttaaaa tgactgteea taaactttte 750 260 agaaatagta ggcatttnag gcnacnagat ttgtanangg natnttcata 800 W--> 262 qaattatacc agtganttna ccacctgaan cctcttggat cccgtaagca 850 W--> 264ttctttgcna caaggaaggg aggtatneng ggtaanteet tgaanttttg 900 W--> 266 gacnggaacn atnacttnga atttnannnn nnnnnnnnn nnnnnngccg 950 W--> 268 engggmentt tntegngnn 969 W--> 270 272 <210> SEQ ID NO: 7 273 <211> LENGTH: 952 274 <212> TYPE: DNA 275 <213> ORGANISM: Homo Sapien 277 <220> FEATURE: 278 <221> NAME/KEY: unsure 279 <222> LOCATION: 1, 3, 7, 23, 30, 38, 49, 53, 64, 68, 84, 90-92, 109, 130, 147, 152, 182, 198, 211, 221-222, 228, 239, 243, 255, 271, 300, 303, 280 308-309, 314, 322, 331, 337, 340, 345, 359, 377, 381, 385, 412, 281 422, 452, 463, 469, 475, 541, 547, 586, 777, 780-781, 784-787, 282 789, 798, 802-803, 825, 831, 838, 840, 853, 855, 863, 865, 872, 283 284 885, 889-890, 907, 921-952 285 <223> OTHER INFORMATION: unknown base

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RAW SEQUENCE LISTING

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W--> 290

₩+->/ 292

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W - - > 300

-≯ 294 W >> 296

DATE: 02/12/2002

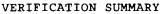
TIME: 12:01:23

Input Set : A:\P2751R1C1.txt Output Set: N:\CRF3\02122002\J052283.raw gttttcctng ggtcccgcca agggggnggt ncttnataaa agggtgcctt 400 W--> 302 tttccccaca gnttccaggt cngagaggag ccgcaccgtc gggttggaga 450 W--> 304 W--> 306 tngcgcgcaa ggnggcttnt ggttnggatt tgccccgcat cggccacagg 500 aaaagcctgg tccctaggca cggttgtggt tcgagctttt ngttttntcg 550 W--> 308 W--> 310 aacattgagg tattcgctca gcccaccacg ttgtcntcgg ggttattagg 600 ccccaqtcac aagccctatg atgttttcag acttcccagg tggagataag 650 312 gaaaatttta ctatttctgc agaacttctg ttgatgtaca gcattgtatt 700 314 316 tagcaactte tqtqtaqate tqaaaataaa tacattaeca attgttagtt 750 √-> 318 qcqtttttat taatataatt ttagagnagn ngannnngnt gttagacnta 800 cnnaggtaaa ttatgtggca ctttngcatt nttgttgntn catgttcccc 850 W--> 320 W--> 322 tqnantttqc ttnqnqattt cnatttattc caaantcann atagaatgta 900 W--> 324 attteenaac ceacagteeg nnnnnnnnn nnnnnnnnn nnnnnnnnn 950 W--> 326 nn 952 328 <210> SEQ ID NO: 8 329 <211> LENGTH: 752 330 <212> TYPE: DNA 331 <213> ORGANISM Homo Sapien 333 <220> FEATURE: 334 <221> NAME/KEY unsure 335 <222> LOCATION: 4-6, 8, 11, 34, 37, 40, 87, 123, 125, 133-134, 138, 143, 147, 166, 171, 174, 199, 242, 263, 302, 305, 333, 363, 380, 423, 425, 337 463, 527, 534, 539, 547-548, 553, 556, 561, 583, 604, 607, 615, 618, 621, 624, 628, 638, 641-643, 646, 648, 654-655, 658, 660, 338 666, 674, 676, 679, 688-689, 704, 710-725, 727, 730, 735, 739, 339 741, 745, 747, 749, 751-752 340 341 <223> OTHER INFORMATION: unknown base 343 <400> SEQUENCE: 8 ggannngntt ncaaaatggg atttttaacc aaantanggn agagaaaagt 50 W - - > 344ttaagtgttt tgccaaaaaa attccaagga aaataangcg gagtttgatt 100 W--> 346tttcagagtt caacaggaaa aangngaaca aanngccngg agntttnaaa 150 W--> 348 gttttgggaa agccantttt natntgttca aggaacagtt tttatttgng 200 W - - > 350W--> 352 atgccaatca gaattttgga cccagtataa tcaaggtcag antttcaacc 250 W--> 354 taagcctgga cengacccat aataacggaa agtttaacaa tgactcacat 300 tntcntaaag tttccagcca gaataggaca cgntcatttg gtcattttcc 350 W--> 356W--> 358 cggtccagag ttnttggatg tagagaaaan tagcttttcc caggaacaat 400 m//> 360 tttgtgattc cgcaggagaa ggntntgaaa gaatacatca agattttgaa 450 w4-> 362 tttggtgatg aanttagcag cagctccact gaacagataa gggcaaccac 500 acctccaaat caaggaaggc cagattntcc tgtntatgnt aaccttnnag 550 ₩-/-> 364 aantgnaaat ntcccagtat ggtcttcccc canttcttgg gagcctggta 600 W--> 366 W--> 368attnagntta ttggngcntg nganactnat atagacanct nnnggngntg 650 W - - > 370ttannatnan cacagnggga catngnatng aagttggnna cctcttgctt 700 W--> 372ggantcgggn nnnnnnnnn nnnnncntcn ccgcngggnc ntttntngng 750 W--> 374 nn 752 376 <210> SEQ ID NO: 9 377 <:211> LENGTH: 478 378 <212> TYPE: DNA 379 <213> ORGANISM Homo Sapien 381 <400> SEQUENCE: 9

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/052,283



PATENT APPLICATION: US/10/052,283

DATE: 02/12/2002 TIME: 12:01:24

Input Set : A:\P2751R1C1.txt

Output Set: N:\CRF3\02122002\J052283.raw

L:11 M:270 C Current Application Number differs, Replaced Current Application No L:11 M:271 C. Current Filing Date differs, Replaced Current Filing Date L 38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L 40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:46 M 341 W (46) "n" or "Xaa" used, for SEQ ID#:1 L:61 M 341 W (46) "n" or "Xaa" used, for SEQ ID#:2 L:63 M 341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 $L\!:\!107~\mbox{M}\!:\!341~\mbox{W}$ (46) "n" or "Xaa" used, for SEQ ID#:3 L:109 M:341 W. (46) "n" or "Xaa" used, for SEQ ID#:3 L:111 M 341 W: (46) "n" or "Xaa" used, for SEQ ID#.3 L.113 M 341 W (46) "n" or "Xaa" used, for SEQ ID#:3 $L\cdot 115$ M 341 W: (46) "n" or "Xaa" used, for SEQ ID# 3 $\rm L\!:\!117~M\!:\!341~W\!:\!$ (46) "n" or "Xaa" used, for SEQ ID#:3 L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L-121 M 341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 $L\!:\!125~M\!:\!341~W\!:$ (46) "n" or "Xaa" used, for SEQ ID#:3 $L\!:\!127$ $M\!:\!341$ W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L 131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 3 L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#.3 L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 L 159 M:341 W (46) "n" or "Xaa" used, for SEQ ID#:4 L.161 M 341 W (46) "n" or "Xaa" used, for SEQ ID#.4 $\,$ L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 $L\!:\!165~M\!:\!341~W\!:\!$ (46) "n" or "Xaa" used, for SEQ ID#-4 L:167 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID# 4L:171 M 341 W: (46) "n" or "Xaa" used, for SEQ ID# 4 L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L.190 M 341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L.192 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:196 M:341 W (46) "n" or "Xaa" used, for SEQ ID#:5 L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:212 M 341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 L:232 M:341 W (46) "n" or "Xaa" used, for SEQ ID#:6 L:234 M:341 W. (46) "n" or "Xaa" used, for SEQ ID#:6 L:236 M 341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 L:238 M 341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 L 240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/052,283

DATE: 02/12/2002 TIME: 12:01:24

Input Set : A:\P2751R1C1.txt

Output Set: N:\CRF3\02122002\J052283.raw

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